

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE
(REV. 7-2005)

ATTORNEY'S DOCKET NUMBER

265.00450101

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/585503INTERNATIONAL APPLICATION NO.
PCT/US2005/000722INTERNATIONAL FILING DATE
10 January 2005PRIORITY DATE CLAIMED
09 January 2004

TITLE OF INVENTION

MECHANOSENSITIVE ION CHANNELS AND METHODS OF USE

APPLICANT(S) FOR DO/EO/US

HAMILL, Owen P.
MAROTO, Rosario

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 201876602 US

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/585503</div>	INTERNATIONAL APPLICATION NO. PCT/US2005/000722	ATTORNEY'S DOCKET NUMBER 265.00450101
23. Other items or information: Application Data Sheet (2 pgs.); Transmittal Letter (1 pg. in triplicate); itemized stamped return postcard (1); Communication and Amendment Requesting Entry of Computer Readable Form (CRF) of the Sequence Listing (2 pgs.); copy of Sequence Listing in paper form (7 pgs.); Sequence Listing in computer form (1 diskette).		
The following fees have been submitted:		CALCULATIONS PTO USE
24. <input checked="" type="checkbox"/> Basic national fee \$300		\$ 300.00
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0 All other situations. \$200		\$ 200.00
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500		\$ 100.00
TOTAL OF 24, 25 and 26 =		\$ 600.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)
66 - 100 =	0 /50 =	0
		x
		\$ 0.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	34 - 20 =	14
Independent claims	6 - 3 =	3
		x
		\$ 600.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> +		\$ 0.00
TOTAL OF ABOVE CALCULATIONS =		\$ 2,030.00
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		\$ 1,015.00
SUBTOTAL =		\$ 1,015.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ 0.00
TOTAL NATIONAL FEE =		\$ 1,015.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +		\$ 40.00
TOTAL FEES ENCLOSED =		\$ 1,055.00
		Amount to be \$
		Amount to be \$

10/585503

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

AP20 Rec'd PCT/PTO 07 JUL 2006

- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 13-4895 in the amount of \$ \$1,055.00 to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-4895. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

David L. Provence
SIGNATURE

David L. PROVENCE
NAME

43,022
REGISTRATION NUMBER

07 July 2006
DATE

10/585503

AP20 Rec'd PCT/PTO 07 JUL 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): HAMILL et al.

Docket No.: 265.00450101

Title: MECHANOSENSITIVE ION CHANNELS AND METHODS OF USE

Commissioner for Patents
Mail Stop PCT
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- ☒ An itemized return postcard.
- ☒ Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371 (2 signed copies, 3 pgs. each, in duplicate).
- ☒ Application Data Sheet (2 pgs.).
- ☐ Formal Drawing (_ figs on _ sheets).
- ☐ A certified copy of a _____ application, Serial No. _____, filed _____, 200____, the right of priority of which is claimed under 35 U.S.C. 119.
- ☒ Other: Copy of International Search Report (5 pgs.); Assignment Recordation Form Cover Sheet (1 pg, plus copy of Assignment (2 pgs)); Communication and Amendment Requesting Entry of Computer Readable Form (CRF) of the Sequence Listing (2 pgs); paper copy of Sequence Listing (7 pgs); Sequence Listing in computer readable form (CRF) (1 disk).
- ☒ Please charge Deposit Account 13-4895 in the amount of \$1055.00 for the filing fee.

Please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. A triplicate copy of this sheet is enclosed.

MUETING, RAASCH & GEBHARDT, P.A.
P.O. Box 581415, Minneapolis, MN 55458
(612/305-1220)

By: David L. Provence
Name: David L. Provence
Reg. No.: 43,022
Direct Dial: 612/305-1005

CERTIFICATE UNDER 37 C.F.R. 1.10:

"Express Mail" mailing label number: EV 201876602 US

Date of Deposit: 07 July 2006

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Mail Stop PCT, P.O. Box 1450, Alexandria, VA 22313-1450.

By: Sue Dombroske
Printed Name: Sue Dombroske

(TRANSMITTAL UNDER RULE 1.10)